



EPA MEETING WITH PVSC, NEWARK, KEARNY, HARRISON, EAST NEWARK JUNE 28, 2017

6/28/2017



Diamond Alkali Superfund Site Operable Units (OUs)

OU1: 80-120 Lister Ave, Newark (2004)

OU2: Lower 8.3 Miles of Passaic River

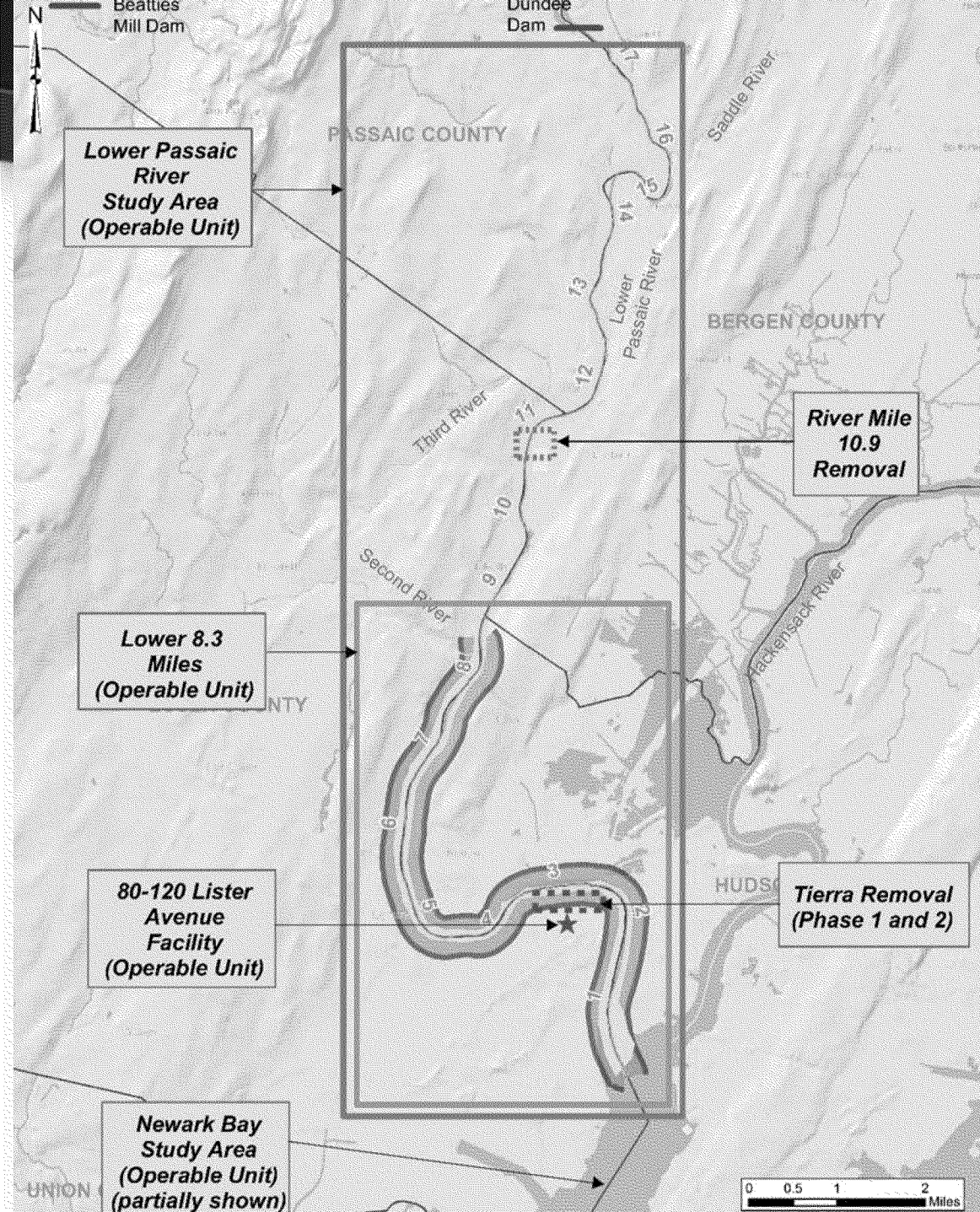
- Record of Decision issued in 2016
- Remedial Design ongoing until 2020

OU3: Newark Bay Study Area

- Study ongoing until 2020

OU4: 17-Mile Lower Passaic River

- Study ongoing until 2021





Lower 8.3-Mile (OU2) Selected Remedy

- Install engineered cap bank-to-bank over lower 8.3 miles
- Before cap is placed, dredge (to prevent additional flooding and for navigation)
- Dewater dredged sediments locally and take them off-site for disposal
- Protect cap with long-term maintenance and institutional controls
- Conduct outreach on NJ fish advisories
- Monitor over long term until goals reached
- **Estimated cost \$1.38 billion**





Major Components of OU2 Selected Remedy (1 of 4)

- **Construction Mobilization**

- Land: staging areas for equipment/materials (3-5 acre lots)
- Infrastructure improvements (roads, bridges)

- **Dredging**

- Large debris removal, transport, disposal
- Dredging (mechanical or hydraulic)
- Sediment screening for pumping
- Transport of dredged material



- **Capping**

- Capping and armoring materials
- Cap and armor placement
- Mudflat reconstruction
- Shoreline repair and replacement



Major Components of OU2 Selected Remedy (2 of 4)

- **Testing and Monitoring During Construction**
 - Boats, laboratories, sampling equipment for
 - Bathymetric surveys
 - Water quality monitoring
 - Air monitoring
 - Sediment monitoring
 - Cap thickness verification (cores)
 - Controls for quality of life impacts
 - Traffic control
 - Odor control





Major Components of OU2 Selected Remedy (3 of 4)

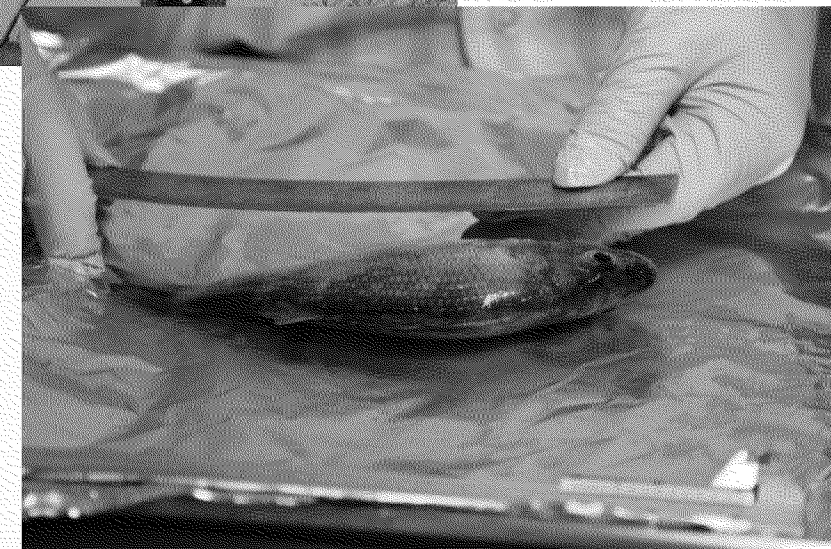
- **Dredged Material Processing**
 - Land for sediment processing facility (20-30 acres)
 - Building sediment processing facility
 - Utilities, fencing, lighting, paving
 - Security, storm water management
 - Building and storage areas
 - Dewatering equipment
 - Waste water treatment plant
 - Pier/dock structure
 - Rail line spur and railcar storage
 - Operation of sediment processing facility
 - Air monitoring, waste water monitoring





Major Components of OU2 Selected Remedy (4 of 4)

- **Construction Demobilization**
 - Removing equipment/materials
 - Decommissioning sediment processing facility
- **Long Term Operations and Maintenance (O & M)**
 - Community Outreach on Fish Consumption Advisories
 - Boats, laboratories, sampling equipment for
 - Bathymetric surveys
 - Sediment sampling and analysis
 - Biological monitoring
 - Water column sampling and analysis
 - Habitat recolonization monitoring
 - Cap maintenance (regular and after storms)





OU2 Remedy Time Line

March 2016

September 2016

2016 – 2020

2020 – 2026

2026 □

Record of Decision

Settlement Agreement for Remedial Design

(with Occidental Chemical/Glen Springs)

Remedial Design

Enforcement

- Phase 1 Cash Out (approx. 20 parties)
- Parties performing or funding the Remedial Action

Remedial Action

Long Term O & M